

PRELIMINARY STATISTICAL SUMMARY OF NONFUEL MINERALS

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This preliminary report summarizes data on crude nonfuel mineral production for the United States, its island possessions, and the Commonwealth of Puerto Rico.

Although crude mineral production may be measured at any of several stages of extraction and processing, the stage of measurement used in this annual report is what is termed "mine output." This term refers to minerals or ores in the form in which they are first extracted from the ground, but customarily may include the output from auxiliary processing at or near the mines.

Because of inadequacies in the statistics available, some series deviate from the foregoing definition. For copper, gold, lead, silver, tin, and zinc, the quantities shown are recorded on a mine basis (as the recoverable content of ore sold or treated). However, the preliminary values assigned to the quantities are based on the average selling price of refined metal, not the mine value. Mercury is measured as recovered metal and valued at the average New York price for the metal. Values shown are in current dollars, with no adjustments made to compen-

sate for changes in the purchasing power of the dollar.

The preliminary total value of all nonfuel mineral production in the United States decreased less than 1% to \$38.2 billion in 1996, with metals decreasing slightly over 6% to \$13.2 billion and industrial minerals rising almost 3% to \$25.1 billion over that of 1995. Eight of the mineral commodities produced in the United States in 1995 had an individual total production value greater than \$1 billion. These commodities, in descending order, were: stone (crushed), cement (portland), copper, sand and gravel (construction), gold, iron ore, clays, and lime. They composed over 78% of the U.S. total production. (*See table 1.*)

In 1996, eleven States produced nonfuel mineral commodities with individual total production values of greater than \$1 billion. These States, in descending order, were: Arizona, Nevada, California, Minnesota, Texas, Georgia, Utah, Florida, Michigan, Missouri, and Pennsylvania. They composed 57% of the U.S. total production. (*See table 4.*)

TABLE 1
NONFUEL MINERAL PRODUCTION 1/ IN THE UNITED STATES 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/		
	Quantity	Value	Quantity	Value	Quantity	Value	
Metals:							
Beryllium concentrates	metric tons	4,330	5	5,040	6	5,430	6
Copper 3/		1,810	4,430,000	1,850	5,640,000	1,900	4,520,000
Gold 3/	kilograms	327,000	4,050,000	320,000	3,990,000	325,000	4,080,000
Iron ore (usable)		57,600	1,580,000	61,100	1,710,000	61,000	2,070,000
Iron oxide pigments (crude)	metric tons	46,400	6,010	51,700	6,720	55,000	7,230
Lead 3/	do.	363,000	298,000	386,000	359,000	430,000	463,000
Magnesium metal	do.	128,000	389,000	142,000	476,000	143,000	514,000
Molybdenum 4/	do.	46,000	284,000	W	W	W	W
Nickel ore	do.	--	--	1,560	W	-- 5/	--
Palladium	kilograms	6,440	29,400	5,260	22,000	5,000	21,700
Platinum	do.	1,960	25,300	1,590	20,800	1,600	21,100
Rare-earth metal concentrates	metric tons	W	W	22,200	W	22,200	W
Silver 3/	do.	1,490	253,000	1,640	271,000	1,800	307,000
Zinc 3/	do.	570,000	619,000	614,000	756,000	620,000	697,000

See footnotes at end of table.

TABLE 1--Continued
NONFUEL MINERAL PRODUCTION 1/ IN THE UNITED STATES 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Metals--Continued:						
Combined value of antimony, bauxite, manganese ore, mercury, titanium concentrates, tungsten, vanadium, zircon concentrates and values indicated by symbol W	XX	147,000	XX	812,000	XX	471,000
Total metals	XX	12,100,000	XX	14,100,000	XX	13,200,000
Industrial minerals (excluding fuels):						
Asbestos metric tons	10,100	5,120	W	W	9,160	W
Barite	583	19,100	543	17,300	650	23,600
Boron minerals (B2O3) metric tons	1,110,000	443,000	796,000	372,000	622,000	498,000
Bromine do.	195,000	155,000	218,000	186,000	227,000	150,000
Cement:						
Masonry	3,610	286,000	3,600	307,000	3,590	307,000
Portland	74,300	4,460,000	73,300	4,920,000	75,000	5,030,000
Clays	42,200	1,600,000	43,100	1,730,000	44,000	1,700,000
Diatomite	613	152,000	687	171,000	700	174,000
Feldspar metric tons	765,000	31,200	882,000	37,400	900,000	38,200
Garnet (industrial) do.	51,000	6,100	53,000	10,000	54,300	10,400
Gemstones	NA	50,500	NA	74,400	NA	61,500
Gypsum (crude)	17,200	115,000	16,600	121,000	17,000	128,000
Helium:						
Crude million cubic meters	39	38,500	36	32,100	36	32,800
Grade-A do.	100	199,000	99	196,000	101	200,000
Iodine metric tons	1,630	12,800	1,220	12,500	1,170	15,800
Lime	17,400	1,020,000	18,500	1,100,000	18,900	1,120,000
Mica (scrap)	110	5,780	108	5,630	109	6,650
Peat	552	15,300	660 6/	17,000 6/	667 6/	16,900 6/
Perlite metric tons	644,000	19,400	700,000	21,600	701,000	20,400
Phosphate rock	41,100	869,000	43,500	947,000	42,500	870,000
Potash (K2O)	2,970	284,000	2,880	284,000	2,810	265,000
Pumice and pumicite metric tons	490,000	11,800	529,000	13,200	465,000	10,900
Salt	39,700	990,000	40,800	1,000,000	40,100	927,000
Sand and gravel:						
Construction	891,000	3,740,000	910,000	3,910,000	963,000	4,270,000
Industrial	27,300	488,000	28,200	502,000	28,600	502,000
Silica stone 7/ metric tons	514	3,990	374	2,970	W	W
Sodium compounds:						
Soda ash	9,320	724,000	10,100	829,000	10,100	778,000
Sodium sulfate (natural)	298	24,200	327	27,700	325	22,000
Stone (crushed) 8/	1,230,000	6,620,000	1,260,000	6,750,000	1,300,000	7,070,000
Sulfur (Frasch)	3,010	162,000	3,070	207,000	W	W
Tripoli metric tons	82,300	10,900	80,100	10,500	W	W
Vermiculite do.	177,000	14,200	171,000	W	W	W
Zeolites do.	57,600	NA	46,800	NA	NA	NA
Combined value of brucite, emery, fluorspar, greensand marl, kyanite, lithium minerals, magnesite, magnesium compounds, olivine, staurolite, stone (dimension), sulfur (Frasch), talc and pyrophyllite, wollastonite, and values indicated by symbol W	XX	531,000	XX	622,000	XX	833,000
Total industrial minerals	XX	23,100,000	XX	24,400,000	XX	25,100,000
Grand total	XX	35,200,000	XX	38,500,000	XX	38,200,000

p/ Preliminary. NA Not available. W Withheld to avoid disclosing company proprietary data; value included with "Combined value." XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Recoverable content of ores, etc.

4/ Content of ore and concentrate.

5/ The mine on Nickel Mountain was on care and maintenance basis in 1996.

6/ Data series changed to production beginning in 1995; prior years shipment data may not be comparable.

7/ Includes grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.

8/ Excludes abrasive stone and bituminous limestone and sandstone; all included elsewhere in table.

TABLE 2
NONFUEL MINERALS PRODUCED IN THE UNITED STATES, BY COMMODITY AND STATES IN 1996 p/

(Based on quantity unless otherwise noted)

Mineral	Principal States	Other States
Antimony 1/	ID	
Asbestos	CA	
Barite	NV, GA, MO, TN, IL	
Bauxite	AL	
Beryllium concentrate	UT	
Boron (B2O3)	CA	
Bromine	AR and MI	
Brucite	NV	
Cement:		
Masonry	FL, IN, MD, AL, SC	All other States except AK, CT, DE, IL, LA, MA, MN, MS, NV, NH, NJ, NM, NC, ND, OR, RI, VT, WI, WY.
Portland	CA, TX, MI, PA, MO	All other States except AK, CT, DE, LA, MA, MN, NH, NJ, NC, ND, RI, VT, WI.
Clays	GA, AL, WY, TX, NC	All other States except AK, DE, HI, RI, VT, WI.
Copper 1/	AZ, UT, NM, MT, NV	ID, IL, MO, WI.
Diatomite	CA, NV, WA, OR, CA	
Emery	OR	
Feldspar	NC, VA, CA, OK, GA	ID and SD.
Fluorspar	IL	
Garnet (abrasive)	NY and ID	
Gemstones (natural) 2/	AL, TN, AR, IA, AZ	All other States.
Gold 1/	NV, CA, UT, SD, MT	AK, AZ, CO, ID, NM, SC, WA, WI.
Greensand marl	NJ	
Gypsum (crude)	OK, IA, TX, NV, CA	AZ, AR, CO, IN, KS, LA, MI, NM, NY, OH, UT, VA, WY.
Helium (crude and Grade-A)	KS, WY, UT, TX, CO	OK.
Iodine	OK	
Iron ore (usable)	MN, MI, MO, UT, NM	CA, MT, SD.
Iron oxide pigments (crude)	MI, MO, GA, VA, AL	AZ.
Kyanite	VA	
Lead 1/	MO, AK, ID, MT, CO	NY.
Lime	MO, OH, KY, AL, PA	All other States except AK, CT, DE, FL, GA, HI, KS, ME, MD, MS, NH, NJ, NM, NY, NC, RI, SC, VT.
Lithium minerals	NC and NV	
Magnesite	NV	
Magnesium compounds	MI, CA, FL, UT, DE	TX.
Magnesium metal	TX, WA, UT	
Manganiferous ore	SC	
Mercury	NV, CA, UT	
Mica (scrap)	NC, NM, GA, SC, SD	
Molybdenum	AZ, UT, CO, ID, MT	NM.
Olivine	WA and NC	
Palladium metal	MT	
Peat	FL, MI, IL, NC, MN	CO, IN, IA, ME, MA, MT, NJ, NY, ND, OH, PA, SC, WA, WV, WI.
Perlite	NM, AZ, CA, NV	
Phosphate rock	FL, ID, NC, UT	
Platinum metal	MT	
Potash	NM, UT, MI, CA	
Pumice and pumicite	OR, NM, CA, ID, KS	AZ.
Rare-earth metal concentrates	CA	
Salt	LA, TX, OH, NY, KS	AL, AZ, CA, MI, NV, NM, OK, UT, WV.
Sand and gravel:		
Construction	CA, TX, MI, OH, AZ	All other States.
Industrial	IL, MI, NJ, CA, WI	All other States except AK, CT, DE, HI, KY, MA, ME, NH, NM, OR, SD, UT, VT, WY.
Silica stone 3/	AR and WI.	
Silver 1/	NV, AZ, ID, UT, AK	CA, CO, MO, MT, NV, NM, NY, SC, SD, UT, WI.
Sodium compounds:		
Soda ash	WY and CA	
Sodium sulfate (natural)	CA and TX	
Staurolite	FL	

See footnotes at end of table.

TABLE 2--Continued
 NONFUEL MINERALS PRODUCED IN THE UNITED STATES, BY COMMODITY AND STATES IN 1996 p/

(Based on quantity unless otherwise noted)

Mineral	Principal States	Other States
Stone:		
Crushed	TX, PA, FL, MO, IL	All other States except DE and ND.
Dimension	IN, GA, WI, MA, VT	All other States except AK, DE, FL, HI, IL, KY, LA, MS, NE, NV, NJ, ND, OR, RI, WY.
Talc and pyrophyllite	MT, TX, NY, VT, NC	CA, OR, VA.
Titanium concentrates	FL	
Tripoli	IL, OK, AR, PA	
Tungsten 1/	CA	
Vanadium 1/	ID	
Vermiculite (crude)	SC and VA	
Wollastonite	NY	
Zinc 1/	AK, TN, NY, MO, MT	CO, IL, ID.
Zircon concentrates	FL	

p/ Preliminary.

1/ Content of ores, etc.

2/ Principal producing States based on value.

3/ Includes grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.

TABLE 3
 VALUE OF NONFUEL MINERAL PRODUCTION IN THE UNITED STATES AND PRINCIPAL NONFUEL MINERALS
 PRODUCED IN 1996 p/ 1/

State	Value (thousands)	Rank	Percent of U.S. total	Principal minerals, in order of value
Alabama	\$735,000	17	1.92	Cement (portland), stone (crushed), lime, sand and gravel (construction), clays.
Alaska 2/	523,000	25	1.37	Zinc, lead, gold, sand and gravel (construction), stone.
Arizona	3,530,000	1	9.23	Copper, sand and gravel (construction), cement (portland), molybdenum, lime.
Arkansas	453,000	29	1.18	Stone (crushed), bromine, cement (portland), sand and gravel (construction), gemstones.
California	2,840,000	3	7.42	Sand and gravel (construction), cement (portland), boron minerals, gold, stone (crushed).
Colorado	528,000	23	1.38	Sand and gravel (construction), cement (portland), molybdenum, stone (crushed), gold.
Connecticut	103,000	44	0.27	Stone (crushed), sand and gravel (construction), stone (dimension), clays, gemstones.
Delaware 2/	10,700	50	0.03	Sand and gravel (construction), magnesium compounds, gemstones.
Florida	1,540,000	8	4.02	Phosphate rock, stone (crushed), cement (portland), sand and gravel (construction), clays.
Georgia	1,720,000	6	4.50	Clays, stone (crushed), cement (portland), stone (dimension), sand and gravel (construction).
Hawaii 2/	112,000	43	0.29	Stone (crushed), cement (portland), sand and gravel (construction), cement (masonry), gemstones.
Idaho	411,000	32	1.08	Gold, phosphate rock, molybdenum, sand and gravel (construction), silver.
Illinois	817,000 r/	16	2.14	Stone (crushed), cement (portland), sand and gravel (construction), sand and gravel (industrial), clays.
Indiana	617,000	21	1.61	Stone (crushed), cement (portland), sand and gravel (construction), lime, cement (masonry).
Iowa	486,000 r/	28	1.27	Stone (crushed), cement (portland), sand and gravel (construction), gypsum, lime.
Kansas	524,000	24	1.37	Cement (portland), helium (Grade-A), stone (crushed), salt, sand and gravel (construction).
Kentucky	453,000 r/	30	1.19	Stone (crushed), lime, cement (portland), sand and gravel (construction), clays.
Louisiana	428,000	31	1.12	Salt, sulfur (Frasch), sand and gravel (construction), stone (crushed), sand and gravel (industrial).
Maine	73,100	45	0.19	Sand and gravel (construction), cement (portland), stone (crushed), cement (masonry), peat.
Maryland 2/	324,000	36	0.85	Stone (crushed), cement (portland), sand and gravel (construction), cement (masonry), stone (dimension).
Massachusetts	191,000	39	0.50	Sand and gravel (construction), stone (crushed), stone (dimension), lime, clays.
Michigan	1,510,000	9	3.94	Iron ore (usable), cement (portland), sand and gravel (construction), magnesium compounds, stone (crushed), salt.
Minnesota	1,800,000	4	4.71	Iron ore (usable), sand and gravel (construction), stone (crushed), sand and gravel (industrial), stone (dimension).
Mississippi	140,000	42	0.36	Sand and gravel (construction), clays, cement (portland), stone (crushed), sand and gravel (industrial).
Missouri	1,250,000	10	3.27	Lead, stone (crushed), cement (portland), lime, zinc.
Montana	523,000	26	1.37	Gold, copper, cement (portland), zinc, sand and gravel (construction).
Nebraska	147,000	41	0.38	Cement (portland), sand and gravel (construction), stone (crushed), clays, cement (masonry).
Nevada	3,230,000 r/	2	8.46	Gold, silver, sand and gravel (construction), copper, diatomite.
New Hampshire 2/	43,900	47	0.11	Sand and gravel (construction), stone (crushed), stone (dimension), clays, gemstones.
New Jersey 2/	222,000	38	0.58	Stone (crushed), sand and gravel (construction), sand and gravel (industrial), greensand marl, peat.
New Mexico	963,000	12	2.52	Copper, potash, sand and gravel (construction), cement (portland), stone (crushed).
New York	891,000	15	2.33	Stone (crushed), cement (portland), salt, sand and gravel (construction), zinc.
North Carolina	731,000	18	1.91	Stone (crushed), phosphate rock, lithium minerals, sand and gravel (construction), sand and gravel (industrial).
North Dakota	30,300	49	0.08	Sand and gravel (construction), lime, clays, sand and gravel (industrial), gemstones.
Ohio	934,000	13	2.44	Stone (crushed), salt, sand and gravel (construction), lime, cement (portland).
Oklahoma	372,000	34	0.97	Stone (crushed), cement (portland), sand and gravel (construction), sand and gravel (industrial), gypsum.
Oregon	251,000	37	0.66	Stone (crushed), sand and gravel (construction), cement (portland), lime, diatomite.
Pennsylvania 2/	1,040,000	11	2.72	Stone (crushed), cement (portland), lime, sand and gravel (construction), cement (masonry).
Rhode Island 2/	31,900	48	0.08	Sand and gravel (construction), stone (crushed), sand and gravel (industrial), gemstones.
South Carolina	495,000	27	1.29	Cement (portland), stone (crushed), gold, sand and gravel (construction), cement (masonry).
South Dakota	353,000	35	0.92	Gold, cement, (portland), sand and gravel (construction), stone (crushed), stone (dimension).
Tennessee	651,000 r/	19	1.70	Stone (crushed), zinc, cement (portland), sand and gravel (construction), clays.
Texas	1,780,000	5	4.66	Cement (portland), sand and gravel (construction), stone (crushed), magnesium metal, lime.
Utah	1,560,000	7	4.08	Copper, gold, magnesium metal, sand and gravel (construction), molybdenum.
Vermont 2/	66,800	46	0.17	Sand and gravel (construction), stone (dimension), stone (crushed), talc and pyrophyllite, gemstones.
Virginia	529,000	22	1.38	Stone (crushed), cement (portland), sand and gravel (construction), lime, kyanite.
Washington	626,000	20	1.64	Sand and gravel (construction), magnesium metal, cement (portland), stone (crushed), gold.
West Virginia	191,000	40	0.50	Stone (crushed), cement (portland), sand and gravel (construction), lime, salt.
Wisconsin	399,000	33	1.04	Stone (crushed), sand and gravel (construction), copper, sand and gravel (industrial), lime.
Wyoming	918,000	14	2.40	Soda ash, clays, helium (Grade-A), cement (portland), stone (crushed).
Undistributed	145,000	XX	0.38	
Total	38,200,000	XX	100.00	

p/ Preliminary. r/ Revised. XX Not applicable.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Partial total; excludes values that must be concealed to avoid disclosing company proprietary data. Concealed values included with "Undistributed."

TABLE 4
 VALUE OF NONFUEL MINERAL PRODUCTION PER CAPITA AND PER SQUARE KILOMETER IN 1996, BY STATE p/ 1/

State	Area (square kilometers)	Population (thousands)	Total value (thousands)	Per capita		Per square kilometer	
				Dollars	Rank	Dollars	Rank
Alabama	134,000	4,250	\$735,000	173	15	5,490	23
Alaska	1,530,000	604	523,000 2/	866	3	342	49
Arizona	295,000	4,220	3,530,000	837	4	12,000	1
Arkansas	138,000	2,480	453,000	182	14	3,290	31
California	411,000	31,600	2,840,000	90	32	6,900	17
Colorado	270,000	3,750	528,000	141	18	1,960	40
Connecticut	13,000	3,270	103,000	31	48	7,920	13
Delaware	5,290	717	10,700 2/	15	50	2,020	39
Florida	152,000	14,200	1,540,000	108	25	10,100	7
Georgia	153,000	7,200	1,720,000	239	11	11,300	4
Hawaii	16,800	1,190	112,000 2/	95	31	6,700	18
Idaho	216,000	1,160	411,000	353	10	1,900	41
Illinois	146,000	11,800	817,000 r/	69	39	5,600	22
Indiana	93,700	5,800	617,000	106	26	6,580	19
Iowa	146,000	2,840	486,000 r/	171	16	3,330	30
Kansas	213,000	2,570	524,000	204	13	2,460	37
Kentucky	105,000	3,860	453,000 r/	117	21	4,330	26
Louisiana	124,000	4,340	428,000	99	29	3,460	29
Maine	86,200	1,240	73,100	59	41	848	47
Maryland	27,100	5,040	324,000 2/	64	40	12,000	2
Massachusetts	21,500	6,070	191,000	32	47	8,900	9
Michigan	152,000	9,550	1,510,000	158	17	9,950	8
Minnesota	219,000	4,610	1,800,000	390	9	8,230	12
Mississippi	124,000	2,700	140,000	52	42	1,130	45
Missouri	181,000	5,320	1,250,000	235	12	6,930	16
Montana	381,000	870	523,000	601	6	1,370	44
Nebraska	200,000	1,640	147,000	90	33	734	48
Nevada	286,000	1,530	3,230,000 r/	2,110	1	11,300	3
New Hampshire	24,000	1,150	43,900 2/	38	45	1,820	42
New Jersey	20,200	7,950	222,000 2/	28	49	11,000	5
New Mexico	315,000	1,690	963,000	571	7	3,060	32
New York	127,000	18,100	891,000	49	43	7,000	15
North Carolina	136,000	7,200	731,000	102	28	5,360	24
North Dakota	183,000	641	30,300	47	44	166	50
Ohio	107,000	11,200	934,000	84	35	8,730	11
Oklahoma	181,000	3,280	372,000	114	24	2,060	38
Oregon	251,000	3,140	251,000	80	37	998	46
Pennsylvania	117,000	12,100	1,040,000 2/	86	34	8,850	10
Rhode Island	3,140	990	31,900 2/	32	46	10,100	6
South Carolina	80,600	3,670	495,000	135	19	6,140	20
South Dakota	200,000	729	353,000	484	8	1,770	43
Tennessee	109,000	5,260	651,000 r/	124	20	5,970	21
Texas	691,000	18,700	1,780,000	95	30	2,580	36
Utah	220,000	1,950	1,560,000	799	5	7,090	14
Vermont	24,900	585	66,800 2/	114	23	2,680	35
Virginia	106,000	6,620	529,000	80	36	5,010	25
Washington	176,000	5,430	626,000	115	22	3,550	28
West Virginia	62,800	1,830	191,000	104	27	3,040	33
Wisconsin	145,000	5,120	399,000	78	38	2,740	34
Wyoming	253,000	480	918,000	1,910	2	3,620	27
Undistributed	XX	XX	145,000	XX	XX	XX	XX
Total or average	9,370,000 3/	262,000 3/	38,200,000	146	XX	4,080	XX

p/ Preliminary. r/ Revised. XX Not applicable.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Partial total; excludes values that must be concealed to avoid disclosing company proprietary data. Concealed values included with "Undistributed."

3/ Excludes Washington, DC (which has no mineral production), with an area of 179 square kilometers and a population of 554,000.

Sources: U.S. Geological Survey and Bureau of the Census.

TABLE 5
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Alabama:						
Cement:						
Masonry	312	28,900	306	30,700	317	31,800
Portland	3,980	248,000	4,090	285,000	4,140	288,000
Clays	2,280 3/	25,400 3/	2,690	33,700	3,360	35,200
Gemstones	NA	W	NA	16,000	NA	W
Lime	1,660	88,300	1,730	105,000	1,760	107,000
Sand and gravel:						
Construction	12,500	47,600	11,900	49,400	13,000	55,900
Industrial	610	7,160	479	5,940	475	5,870
Stone (crushed)	32,500	164,000	33,600	174,000	35,500	186,000
Combined value of bauxite, clays [bentonite (1994)], iron oxide pigments [crude (1996)], salt, and stone [dimension limestone, marble and sandstone (1994), dimension limestone and sandstone (1995-96)], and values indicated by symbol W	XX	16,500	XX	6,810	XX	25,100
Total	XX	626,000	XX	706,000	XX	735,000
Alaska:						
Gemstones	NA	10	NA	10	NA	11
Gold 4/ kilograms	5,660 5/	70,300 5/	4,410 5/	56,000 5/	4,500	56,400
Sand and gravel (construction)	15,700	56,200	13,700	48,500	14,000	51,100
Silver 4/ metric tons	W	W	109	18,100	130	22,200
Stone (crushed)	3,870	24,100	3,320 6/	20,400 6/	3,500 6/	22,200 6/
Zinc 4/ metric tons	W	W	321,000	395,000	330,000	371,000
Combined values of lead, stone [crushed dolomite and limestone (1995-96)], and value indicated by symbol W	XX	367,000	XX	(7/)	XX	(7/)
Total	XX	518,000	XX	538,000 8/	XX	523,000 8/
Arizona:						
Clays	98 3/	452 3/	119	449 3/	120	454 3/
Copper 4/	1,120	2,750,000	1,170	3,560,000	1,230	2,930,000
Gemstones	NA	3,550	NA	3,230	NA	4,010
Gold 4/ kilograms	2,050	25,300	1,920	23,900	2,100	26,300
Iron oxide pigments (crude) metric tons	77	62	68	90	W	W
Sand and gravel:						
Construction	34,800	166,000	40,100	201,000	41,900	220,000
Industrial	W	W	334	2,910	332	3,310
Silver 4/ metric tons	198	33,700	220	36,400	240	40,900
Stone (crushed)	4,970	25,000	5,520	32,600	5,600	33,600
Combined value of cement, clays (bentonite), gypsum (crude), lime, molybdenum, perlite (crude), pumice and pumicite, salt, stone (dimension sand stone), and value indicated by symbol W	XX	274,000	XX	331,000	XX	274,000
Total	XX	3,280,000	XX	4,190,000	XX	3,530,000
Arkansas:						
Clays 3/	883	2,440	1,160	7,810	1,330	5,460
Gemstones	NA	3,950	NA	4,890	NA	W
Sand and gravel:						
Construction	10,600	42,500	11,600	48,300	11,300	46,300
Industrial	684	8,230	W	W	W	W
Silica stone 9/ metric tons	510	3,940	W	W	W	W
Stone:						
Crushed	20,800 6/	122,000 6/	25,500	169,000	26,200	176,000
Dimension metric tons	W	W	22,000	2,010	24,300	2,010

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Arkansas--Continued:						
Combined value of bromine, cement, clays [fire, kaolin (1994)], gypsum (crude), lime, stone [crushed limestone and traprock (1994), dimension limestone, marble, and sandstone (1994)], tripoli and values indicated by symbol W	XX	254,000	XX	260,000	XX	224,000
Total	XX	437,000	XX	492,000	XX	453,000
California:						
Asbestos metric tons	8,990	4,200	W	W	9,160	W
Boron minerals (B203) do.	550,000	443,000	796,000	372,000	622,000	498,000
Cement:						
Masonry	99	6,830	154	11,200	161	11,700
Portland	9,640	539,000	9,360	565,000	9,780	589,000
Clays 3/	1,570	20,600	1,810	28,800	1,620	25,800
Diatomite	W	W	318	W	322	W
Gemstones	NA	1,710	NA	490	NA	468
Gold 4/ kilograms	30,100	373,000	26,200	326,000	26,000	326,000
Lime	203	16,900	228	15,600	172	11,700
Rare-earth metal concentrates metric tons	20,700	W	22,200	W	22,200	W
Sand and gravel:						
Construction	96,300	523,000	98,400	542,000	112,000	646,000
Industrial	1,740	39,400	1,710	38,300	1,690	39,400
Silver 4/ metric tons	11	1,910	13	2,100	28	4,770
Stone:						
Crushed	41,100	258,000	43,700 6/	268,000 6/	46,200 6/	286,000 6/
Dimension metric tons	11,100 6/	4,030 6/	27,300	6,660	30,300	6,700
Combined value of clays (fuller's earth, kaolin), copper (1996), feldspar, gypsum (crude), iron ore (usable), magnesium compounds, mercury, perlite (crude), potash, pumice and pumicite, salt, soda ash, sodium sulfate (natural), stone [crushed dolomite and shell (1995-96), dimension limestone, sandstone, slate and miscellaneous (1994)], talc and pyrophyllite, titanium [ilmenite (1994)], tungsten, and values indicated by symbol W	XX	364,000	XX	399,000	XX	391,000
Total	XX	2,590,000	XX	2,580,000	XX	2,840,000
Colorado:						
Clays	291	2,320	294	2,050 3/	324 3/	1,980 3/
Gemstones	NA	267	NA	245	NA	247
Gold 4/ kilograms	4,420	54,700	W	W	W	W
Sand and gravel (construction)	29,000	109,000	34,100	141,000	38,200	164,000
Stone:						
Crushed	8,260 6/	52,300 6/	9,000	58,500	9,800	64,700
Dimension metric tons	3,630 6/	51 6/	17,800	2,640	12,100	2,250
Combined value of cement, clays [fire (1996), kaolin (1995-96)], gypsum (crude), helium (Grade-A), lead, lime, molybdenum, peat, sand and gravel (industrial), silver, stone [crushed traprock and volcanic cinder (1994), dimension marble (1994)], zinc, and values indicated by symbol W	XX	192,000	XX	366,000	XX	295,000
Total	XX	410,000	XX	570,000	XX	528,000
Connecticut:						
Gemstones	NA	5	NA	5	NA	5
Sand and gravel (construction)	5,420	28,000	6,410	37,500	7,190	43,100
Stone (crushed)	5,710	43,900 6/	6,070 6/	45,500 6/	6,000 6/	50,400 6/
Combined value of other industrial minerals	XX	9,810	XX	9,470	XX	9,420
Total	XX	81,800	XX	92,500	XX	103,000

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Delaware:						
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction)	2,580	8,680	2,680	8,740	3,100	10,700
Total 8/	XX	8,680	XX	8,750	XX	10,700
Florida:						
Cement:						
Masonry	400	34,600	383	35,200	418	38,300
Portland	3,370	228,000	3,170	233,000	3,210	236,000
Clays 3/	430	55,000	421	54,300	433	55,900
Gemstones	NA	W	NA	W	NA	1
Peat	206	3,230	294 10/	5,390 10/	288 10/	6,200 10/
Sand and gravel:						
Construction	16,600	60,700	19,300	69,300	20,500	76,700
Industrial	540	6,120	547	6,340	535	6,590
Stone (crushed)	66,300 6/	343,000	68,000	350,000	70,000	368,000
Combined value of clays (common), magnesium compounds, phosphate rock, rare-earth metal concentrates (1994), staurolite, titanium concentrates (ilmenite and rutile), zircon concentrates, and values indicated by symbol W	XX	669,000	XX	783,000	XX	749,000
Total	XX	1,400,000	XX	1,540,000	XX	1,540,000
Georgia:						
Clays	9,960 3/	1,060,000 3/	10,600	1,160,000	10,500	1,140,000
Gemstones	NA	51	NA	51	NA	W
Sand and gravel:						
Construction	5,520	19,800	5,780	23,100	6,460	27,100
Industrial	440	7,040	574	7,060	574	7,060
Stone:						
Crushed	54,600	331,000	60,600	373,000	63,800	399,000
Dimension metric tons	200,000 6/	19,100 6/	132,000	27,700	153,000	27,200
Combined value of barite, bauxite (1994-95), cement, clays [fire (1994)], feldspar, iron oxide pigments (crude), mica (scrap), and stone [dimension marble and miscellaneous (1994)], and value indicated by symbol W	XX	115,000	XX	109,000	XX	118,000
Total	XX	1,550,000	XX	1,700,000	XX	1,720,000
Hawaii:						
Cement:						
Masonry	6	395	5	501	5	455
Portland	404	28,300	357	35,500	305	30,300
Sand and gravel (construction)	521	4,740	405	4,030	425	4,340
Stone (crushed)	8,170	82,300	7,450 6/	73,500 6/	7,800 6/	77,200 6/
Total 8/	XX	116,000	XX	114,000	XX	112,000
Idaho:						
Clays	--	--	1	10	1	10
Gemstones	NA	287	NA	346	NA	365
Gold 4/ kilograms	W	W	8,850	110,000	9,300	117,000
Sand and gravel:						
Construction	14,500	46,300	13,200	43,500	11,600	37,700
Industrial	W	W	501	8,720	641	8,720
Silver 4/ metric tons	W	W	182	30,200	194	33,100
Stone (crushed)	4,160	20,300	3,210 6/	14,000 6/	2,800 6/	12,600 6/
Combined value of antimony, cement, copper, feldspar, garnet (industrial), lead, lime, molybdenum, phosphate rock, pumice and pumicite, stone [crushed miscellaneous (1995-96), dimension marble and miscellaneous (1994), dimension quartzite (1995-96)], vanadium ore, zinc, and values indicated by symbol W	XX	273,000	XX	303,000	XX	202,000
Total	XX	340,000	XX	510,000	XX	411,000

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Illinois:						
Cement (portland)	2,590	151,000	2,560	169,000	2,540	168,000
Clays	494 6/	1,170 6/	504	1,220 3/	792	627 3/
Gemstones	NA	376	NA	269	NA	W
Sand and gravel:						
Construction	37,900	150,000	36,100	147,000	35,400	142,000
Industrial	4,420	65,700	4,410	67,500	4,360	62,600
Stone (crushed)	62,600 6/	353,000 6/	61,400	335,000	65,000	364,000
Combined value of barite, cement [masonry (1994)], clays (fuller's earth), copper (1994-95), fluorspar, lead (1994-95), lime, peat, silver (1994-95), stone [crushed miscellaneous (1994), dimension dolomite (1994)], tripoli, zinc, and value indicated by symbol W	XX	102,000	XX	107,000	XX	79,700 r/
Total	XX	823,000	XX	828,000	XX	817,000 r/
Indiana:						
Cement (portland)	2,290	132,000	2,330	143,000	2,280	140,000
Clays	774 3/	2,540 3/	915	3,350 3/	837	3,520
Gemstones	NA	29	NA	36	NA	W
Peat	23	W	17 10/	281 10/	W	W
Sand and gravel (construction)	28,100	108,000	24,900	93,900	26,700	107,000
Stone:						
Crushed	45,900	211,000	49,200	234,000 6/	53,500	260,000 6/
Dimension metric tons	173,000	25,800	172,000	31,400	190,000	29,500
Combined value of cement (masonry), clays [ball (1994-95)], gypsum (crude), lime, sand and gravel (industrial), stone [crushed slate (1995-96)], and values indicated by symbol W	XX	75,400	XX	82,700	XX	77,400
Total	XX	555,000	XX	589,000	XX	617,000
Iowa:						
Cement (portland)	2,390	153,000	2,340	161,000	2,690	185,000
Clays	384	1,520	322	1,590	301	1,450
Gemstones	NA	50	NA	57	NA	W
Gypsum (crude)	2,210	12,700	2,240	13,800	2,380	14,000
Peat	5	W	5 10/	77 10/	W	W
Sand and gravel (construction)	15,300	58,200	14,300	57,000	15,900	66,800
Stone (crushed)	36,600 6/	211,000	35,300	210,000	34,400	206,000
Combined value of cement (masonry), lime, sand and gravel (industrial), stone [crushed dolomite and miscellaneous (1994), dimension (1994), dimension dolomite and limestone (1996), dolomite and sandstone (1995)], and values indicated by symbol W	XX	14,800	XX	12,500	XX	12,500
Total	XX	451,000	XX	456,000	XX	486,000
Kansas:						
Cement:						
Masonry	24	2,090	31	2,650	32	2,710
Portland	1,640	101,000	1,730	109,000	2,050	129,000
Clays	556 3/	2,150 3/	620	2,390 3/	656	2,490 3/
Gemstones	NA	W	NA	W	NA	1
Helium:						
Crude million cubic meters	32	31,400	30	26,600	30	27,200
Grade-A do.	53	105,000	53	105,000	54	108,000
Salt	2,660	108,000	2,770	113,000	2,710	93,000
Sand and gravel (construction)	11,200	29,600	11,100	29,400	13,500	38,500
Stone:						
Crushed	21,500	103,000	20,400	95,800	22,200	106,000
Dimension 6/ metric tons	23,700	1,730	19,800	1,810	20,400	2,140

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Kansas---Continued						
Combined value of clays (fuller's earth), gypsum (crude), pumice and pumicite, sand and gravel (industrial), stone (dimension sandstone), and values indicated by symbol W	XX	11,900	XX	12,200	XX	15,200
Total	XX	497,000	XX	498,000	XX	524,000
Kentucky:						
Clays	820 3/	3,460 3/	904	3,430 3/	897	4,000 3/
Sand and gravel (construction)	9,140	32,200	8,710	31,700	7,000	24,500
Stone (crushed)	56,300	259,000	54,700 6/	230,000 6/	60,000 6/	261,000 6/
Combined value of cement, clays (ball), gemstones, lime, and stone [crushed (1995), crushed dolomite and sandstone (1996)]	XX	134,000	XX	161,000	XX	164,000
Total	XX	428,000	XX	426,000	XX	453,000
Louisiana:						
Clays	371	3,280	384	548	395	530
Gemstones	NA	155	NA	175	NA	W
Salt	13,500	140,000	14,700	177,000	15,000	189,000
Sand and gravel:						
Construction	12,300	49,600	11,300	50,200	11,600	51,600
Industrial	454	9,320	572	10,500	572	10,500
Stone (crushed) 6/	707	7,710	2,540	26,700	3,100	31,300
Combined value of gypsum (crude), lime, stone (crushed shell and miscellaneous), sulfur (Frasch), and value indicated by symbol W	XX	144,000	XX	169,000	XX	145,000
Total	XX	354,000	XX	434,000	XX	428,000
Maine:						
Gemstones	NA	235	NA	305	NA	W
Peat	W	W	15 10/	845 10/	W	W
Sand and gravel (construction)	5,890	24,400	6,420	26,900	7,170	31,200
Stone (crushed)	2,740	15,500	3,110	16,100	3,300	17,300
Combined value of cement, clays (common), stone [dimension (1994), dimension granite (1994-95)], and values indicated by symbol W	XX	20,900	XX	23,500	XX	24,600
Total	XX	61,000	XX	67,600	XX	73,100
Maryland:						
Cement (portland)	1,710	90,700	1,670	101,000	1,620	97,600
Clays	293	946	278	943	293	905
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction)	8,920	61,200	9,700	61,700	9,750	62,400
Stone:						
Crushed	23,200 6/	157,000 6/	24,200	158,000	24,500	162,000
Dimension metric tons	18,800 6/	1,550 6/	20,700	2,260	11,100	1,190
Combined value of other industrial minerals	XX	29,000	XX	(7/)	XX	(7/)
Total	XX	340,000	XX	324,000	XX	324,000 8/
Massachusetts:						
Clays	W	W	31	W	31	W
Sand and gravel (construction)	12,300	60,000	11,700	67,500	13,500	81,000
Stone:						
Crushed	10,400 6/	96,800 6/	11,100	97,400	9,200	80,500
Dimension metric tons	57,300	9,600	77,600	14,600	121,000	18,800
Combined value of clays (common), gemstones, lime, peat, stone [crushed dolomite and limestone, (1994)], and values indicated by symbol W	XX	11,100	XX	10,700	XX	10,800
Total	XX	178,000	XX	190,000	XX	191,000
Michigan:						
Cement:						
Masonry	235	17,700	229	16,700	247	18,100
Portland	5,160	331,000	5,400	361,000	5,580	373,000

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Michigan--Continued:						
Clays	1,150	3,370	623	3,430	647	3,390
Gemstones	NA	2	NA	2	NA	W
Gypsum (crude)	1,790	15,300	1,510	14,900	1,360	15,300
Iron ore (usable)	13,800	W	13,500	W	W	W
Lime	637	33,000	653	34,600	484	25,300
Peat	156	5,090	173 10/	5,510 10/	168 10/	4,500 10/
Sand and gravel:						
Construction	48,800	160,000	53,500	178,000	54,400	185,000
Industrial	2,870	31,300	2,940	30,600	2,820	27,500
Stone:						
Crushed	35,000	113,000	37,500	127,000	38,000	131,000
Dimension metric tons	147 6/	35 6/	W	W	W	W
Combined values of bromine, copper (1994-95), iron oxide pigments (crude), magnesium compounds, potash, salt, silver (1994-95), stone [dimension dolomite and sandstone (1995-96), dimension sandstone (1994)], and values indicated by symbol W						
Total	XX	761,000	XX	736,000	XX	725,000
Total	XX	1,470,000	XX	1,510,000	XX	1,510,000
Minnesota:						
Clays	W	W	48	W	11 3/	W
Gemstones	NA	26	NA	26	NA	W
Iron ore (usable)	43,300	1,160,000	47,000	1,310,000	47,000	1,590,000
Peat	37	3,010	24 10/	2,070 10/	27 10/	2,240 10/
Sand and gravel (construction)	29,500	90,000	31,900	99,400	32,600	104,000
Stone:						
Crushed	10,900	47,100	11,300 6/	47,400 6/	12,000 6/	52,200 6/
Dimension metric tons	16,900 6/	W	26,900	11,100	29,600	11,100
Combined value of clays (common, kaolin), lime, sand and gravel (industrial), stone [crushed quartzite and traprock (1995-96), dimension dolomite and granite (1994)], and values indicated by symbol W						
Total	XX	44,900	XX	40,400	XX	39,500
Total	XX	1,340,000	XX	1,510,000	XX	1,800,000
Mississippi:						
Clays	1,190 3/	40,500 3/	1,230	44,000	1,140	40,300
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction)	12,400	53,200	11,800	53,000	13,300	63,200
Stone (crushed)	1,900	7,500	1,990 6/	8,010 6/	2,200 6/	9,400 6/
Combined value of other industrial minerals	XX	33,900	XX	25,500	XX	26,600
Total 8/	XX	135,000	XX	131,000	XX	140,000
Missouri:						
Cement (portland)	4,730	265,000	4,360	270,000	4,490	278,000
Clays	1,250 3/	7,910 3/	1,610	10,300 3/	1,530	3,760 3/
Copper 4/	8	18,900	7	22,800	9	22,000
Gemstones	NA	67	NA	58	NA	W
Lead 4/ metric tons	290,000	238,000	W	W	W	W
Sand and gravel:						
Construction	9,760	36,500	8,840	32,400	10,500	41,000
Industrial	559	9,970	W	W	W	W
Silver 4/ metric tons	40	6,860	W	W	W	W
Stone (crushed)	68,900	330,000	65,700 6/	305,000 6/	65,500 6/	311,000 6/
Zinc 4/ metric tons	42,000	45,600	W	W	W	W
Combined value of barite, cement (masonry), clays (fuller's earth), iron ore (usable), iron oxide pigments (crude), lime, stone [crushed granite (1995-96), dimension granite], and values indicated by symbol W						
Total	XX	128,000	XX	495,000	XX	596,000
Total	XX	1,090,000	XX	1,140,000	XX	1,250,000

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Montana:						
Clays	28 3/	W	33 3/	90 3/	33 3/	90 3/
Gemstones	NA	3,400	NA	938	NA	1,030
Gold 4/ kilograms	12,600	156,000	12,400	155,000	12,500	157,000
Iron ore (usable)	--	--	5	60	W	W
Lead 4/ metric tons	9,940	8,140	W	W	W	W
Palladium kilograms	6,440	29,400	5,260	22,000	5,000	21,700
Platinum do.	1,960	25,300	1,590	20,800	1,600	21,100
Sand and gravel (construction)	7,360	28,800	8,870	34,900	7,680	26,900
Silver 4/ metric tons	71	12,000	76	12,600	94	16,000
Stone (crushed)	2,320	8,830	2,370 6/	9,920 6/	2,400 6/	10,200 6/
Zinc 4/ metric tons	21,000	22,800	22,700	27,900	W	W
Combined value of barite (1994), cement, clays [bentonite, common (1994), fire], copper, lime, molybdenum, peat, sand and gravel [industrial (1994-95), stone [crushed quartzite (1995-96), dimension (1994), dimension miscellaneous (1995-96)], talc and pyrophyllite, and values indicated by symbol W	XX	249,000	XX	291,000	XX	269,000
Total	XX	543,000	XX	575,000	XX	523,000
Nebraska:						
Clays	206	867	232	1,130	235	1,140
Lime	24	904	20	803	18	737
Sand and gravel (construction)	15,000	49,200	13,700	47,100	13,900	48,000
Stone (crushed)	6,890	41,600	6,590	41,800	6,400	40,900
Combined value of cement, gemstones, and sand and gravel (industrial)	XX	53,600	XX	55,500	XX	56,200
Total	XX	146,000	XX	146,000	XX	147,000
Nevada:						
Barite	284 11/	5,020 11/	W	W	W	W
Clays 3/	7	2,860	6	477	29	3,670
Copper 4/	6	15,800	6	19,800	W	W
Gemstones	NA	160	NA	306	NA	345
Gold 4/ kilograms	214,000	2,700,000	213,000	2,650,000	214,000	2,690,000
Sand and gravel:						
Construction	22,700	106,000	22,500	110,000	21,400	103,000
Industrial	572	W	W	W	W	W
Silver 4/ metric tons	673	115,000	766	127,000	791	135,000
Stone (crushed)	2,310	20,600	2,410	21,400	2,500	22,400
Combined value of barite, brucite, cement (portland), clays (fuller's earth, kaolin), diatomite, gypsum (crude), lime, lithium minerals, magnesite, mercury, perlite (crude), salt, and values indicated by symbol W	XX	149,000	XX	180,000	XX	282,000
Total	XX	3,110,000	XX	3,110,000	XX	3,230,000
New Hampshire:						
Clays	3	16	3	16	3	16
Gemstones	NA	21	NA	9	NA	W
Sand and gravel (construction)	7,120	32,600	7,190	34,300	6,300	29,600
Stone:						
Crushed 6/	1,390	7,470	2,150	9,150	2,000	8,700
Dimension metric tons	35,300	6,300	23,000	6,290	30,000	5,530
Total 8/	XX	46,400	XX	49,800	XX	43,900
New Jersey:						
Clays	W	W	82	135	82	135
Gemstones	NA	1	NA	1	NA	1
Sand and gravel:						
Construction	16,100	100,000	14,000	80,300	12,000	67,200
Industrial	1,690	30,600	1,760	31,000	1,810	31,900
Stone (crushed)	19,800	154,000	21,000	132,000	19,300	123,000

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
New Jersey--Continued:						
Combined value of other industrial minerals	XX	4,460	XX	(7/)	XX	(7/)
Total	XX	289,000	XX	243,000 8/	XX	222,000 8/
New Mexico:						
Clays 3/	127	269	127	274	127	274
Copper 4/	234	574,000	250	764,000	W	W
Gemstones	NA	14	NA	22	NA	W
Potash (K ₂ O)	2,450	219,000	2,330	209,000	2,330	200,000
Pumice and pumicite metric tons	129,000	1,050	W	W	W	W
Sand and gravel (construction)	10,400	47,400	10,400	50,700	10,900	54,500
Silver 4/ metric tons	22	3,750	20	3,300	27	4,600
Stone (crushed)	3,550 6/	20,000 6/	3,660	18,800	3,600	18,700
Combined value of cement [masonry (1994), portland], gypsum, clays (fire), gold, gypsum (crude), iron ore (usable), mica (crude), molybdenum, perlite (crude), salt, stone [crushed quartzite and traprock (1994), dimension granite and marble (1995-96), dimension granite, marble, and miscellaneous (1994)], and values indicated by symbol W	XX	65,100	XX	83,900	XX	685,000
Total	XX	930,000	XX	1,130,000	XX	963,000
New York:						
Cement:						
Masonry	82	6,020	90	7,210	81	6,440
Portland	2,650	139,000	2,530	205,000	2,500	202,000
Clays	507	9,270	563	12,500	563	12,500
Gemstones	NA	W	NA	W	NA	138
Peat	W	12	W	W	W	W
Salt	6,060	233,000	4,480	185,000	3,370	163,000
Sand and gravel (construction)	28,000	138,000	27,300	134,000	28,600	143,000
Stone:						
Crushed	39,400	239,000	39,500	204,000	42,000	223,000
Dimension metric tons	24,600 6/	7,370 6/	32,800	8,440	36,200	7,640
Combined value of garnet (industrial), gypsum (crude), lead, sand and gravel (industrial), silver, stone [dimension granite and quartzite (1994)], talc and pyrophyllite, wollastonite, zinc, and values indicated by symbol W	XX	117,000	XX	130,000	XX	134,000
Total	XX	889,000	XX	886,000	XX	891,000
North Carolina:						
Clays 3/	2,530	12,500	2,430	12,500	2,400	11,100
Feldspar metric tons	488,000	17,600	497,000	18,400	509,000	18,900
Gemstones	NA	565	NA	4,440	NA	680
Mica (scrap)	68	3,270	74	3,690	W	W
Peat	21	W	19 10/	340 10/	W	W
Sand and gravel:						
Construction	11,100	50,700	10,100	50,100	11,300	58,400
Industrial	1,460	24,200	1,330	21,900	1,640	26,900
Stone:						
Crushed	53,900 6/	351,000 6/	57,300	384,000	57,000	388,000
Dimension metric tons	33,700 6/	12,500 6/	41,100 6/	15,400 6/	48,500	16,000
Combined value of clays (kaolin), lithium minerals, olivine, phosphate rock, stone [dimension quartzite, sandstone, slate and miscellaneous (1994-95)], talc and pyrophyllite, and values indicated by symbol W	XX	231,000 r/	XX	225,000	XX	211,000
Total	XX	703,000	XX	735,000	XX	731,000
North Dakota:						
Clays	59	W	59	W	59	W
Lime	W	6,590	W	W	W	W
Sand and gravel (construction)	6,810	18,500	8,420	23,900	8,500	24,500

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
North Dakota--Continued:						
Combined value of clays (common), gemstones, peat, sand and gravel (industrial), and values indicated by symbol W	XX	199	XX	7,300	XX	5,840
Total	XX	25,300	XX	31,200	XX	30,300
Ohio:						
Cement (portland)	1,050	69,700	1,050	72,700	1,030	71,300
Clays	2,080 3/	12,500 3/	1,930	10,700	2,110	9,090
Gemstones	NA	43	NA	3	NA	3
Lime	1,850	113,000	1,920	117,000	2,030	124,000
Sand and gravel:						
Construction	47,700	205,000	45,300	196,000	45,900	201,000
Industrial	1,260	27,700	1,270	28,800	1,480	31,600
Stone:						
Crushed	56,400	251,000	60,900	265,000	62,600	279,000
Dimension metric tons	W	W	17,900	1,670	18,800	1,610
Combined value of cement (masonry), clays [ball (1994)], gypsum (crude), peat, salt, stone [dimension limestone and sandstone (1994)], and value indicated by symbol W	XX	201,000	XX	200,000	XX	217,000
Total	XX	880,000	XX	891,000	XX	934,000
Oklahoma:						
Cement:						
Masonry	91	7,410	95	7,250	100	7,630
Portland	1,680	102,000	1,740	110,000	1,820	115,000
Clays	771	3,910	674	3,580	814	6,710
Gypsum (crude)	2,890	17,000	2,830	17,000	2,890	17,900
Iodine (crude) metric tons	1,630	12,800	1,210	12,500	1,170	15,800
Sand and gravel:						
Construction	8,480	27,200	7,800	25,100	8,330	27,500
Industrial	1,230	24,000	1,250	25,400	1,250	25,400
Stone:						
Crushed	29,900	125,000	31,100	125,000	29,600	126,000
Dimension metric tons	3,980 6/	1,250 6/	9,170 6/	2,350 6/	14,000	2,220
Combined value of feldspar, gemstones, helium [crude (1995-96)], lime, salt, stone [crushed shell and traprock (1995-96), dimension quartzite and sandstone (1995), dimension sandstone (1994)], and tripoli	XX	19,400	XX	28,700	XX	28,700
Total	XX	340,000	XX	357,000	XX	372,000
Oregon:						
Clays	240	1,560	240	1,270	174	1,980
Copper 4/	(12/)	260	--	--	--	--
Gemstones	NA	2,160	NA	4,570	NA	3,860
Nickel ore metric tons	--	--	1,560	W	-- 13/	-- 13/
Pumice and pumicite do.	220,000	2,760	W	W	W	W
Sand and gravel (construction)	18,400	83,600	18,200	85,000	19,100	90,700
Silver 4/ metric tons	(12/)	10	--	--	--	--
Stone (crushed)	18,900	90,100	20,700	95,700	21,600	102,000
Zinc 4/ metric tons	118	128	--	--	--	--
Combine value of cement (portland), diatomite, emery, gold (1994), lime, talc and pyrophyllite, and values indicated by symbol W	XX	62,100	XX	52,500	XX	52,800
Total	XX	243,000	XX	239,000	XX	251,000
Pennsylvania:						
Cement:						
Masonry	245	19,300	267	21,200	255	20,000
Portland	5,630	315,000	5,610	355,000	5,070	320,000
Clays	811	4,040	750	3,250	679	2,970
Gemstones	NA	1	NA	1	NA	1

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Pennsylvania--Continued:						
Lime	1,590	95,500	1,640	107,000	1,510	98,700
Peat metric tons	10	296	11 10/	294 10/	5 10/	164 10/
Sand and gravel (construction)	15,900	89,700	17,100	93,100	14,900	78,200
Stone:						
Crushed	76,700	462,000	80,900	492,000	81,700	507,000
Dimension metric tons	43,700 6/	7,280 6/	57,600	12,300	61,600	12,300
Combined value of other industrial minerals	XX	13,300	XX	(7/)	XX	(7/)
Total	XX	1,010,000	XX	1,080,000 8/	XX	1,040,000 8/
Rhode Island:						
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction)	2,310	14,200	2,790	21,500	3,000	23,900
Stone (crushed)	1,610	12,200	1,250	9,140	1,100	8,000
Total 8/	XX	26,300	XX	30,700	XX	31,900
South Carolina:						
Cement (portland)	2,210	143,000	2,210	156,000	2,440	172,000
Clays	1,520 3/	30,400 3/	1,620	21,700 3/	1,690	21,700
Sand and gravel:						
Construction	8,600	26,100	8,880	29,000	9,590	33,100
Industrial	699	18,100	839	20,500	839	20,500
Stone (crushed)	20,500 6/	131,000 6/	22,000	132,000	23,800	146,000
Combined value of cement (masonry), clays [fire (1995), kaolin (1994)], gemstones, gold, manganiferous ore, mica (scrap), peat, silver, stone [crushed marble (1994), dimension granite], and vermiculite	XX	93,900	XX	88,700	XX	102,000
Total	XX	442,000	XX	447,000	XX	495,000
South Dakota:						
Clay (common)	W	W	136	W	106	W
Gemstones	NA	110	NA	173	NA	W
Gold 4/ kilograms	W	W	17,100	214,000	W	W
Sand and gravel (construction)	7,700	23,700	8,730	26,200	9,540	31,000
Silver 4/ metric tons	4	696	4	668	7	1,190
Stone (crushed) 6/	5,490	24,500	5,420	25,700	5,800	28,000
Combined value of cement, clays (common), feldspar, iron ore (usable), lime, mica (scrap), stone [crushed granite and miscellaneous (1995-96), crushed miscellaneous (1994), dimension granite], and values indicated by symbol W	XX	274,000	XX	65,300	XX	293,000
Total	XX	323,000	XX	332,000	XX	353,000
Tennessee:						
Clays 3/	665	28,600	664	29,000	687	31,400
Gemstones	NA	23,100	NA	35,400	NA	W
Sand and gravel:						
Construction	8,710	38,000	8,020	36,700	8,530	40,100
Industrial	660	11,600	918	14,700	818	13,400
Stone (crushed)	49,200	265,000	52,600	286,000	53,000	292,000
Combined value of barite, cement, clays [bentonite (1994), common, fuller's earth, kaolin (1995)], copper (1994-95), lead (1994-95), lime, silver (1994-95), stone (dimension), zinc, and value indicated by symbol W	XX	235,000	XX	282,000	XX	275,000
Total	XX	602,000	XX	683,000	XX	651,000
Texas:						
Cement:						
Masonry	258	18,200	202	17,600	228	19,900
Portland	8,620	456,000	8,090	499,000	8,370	516,000
Clays 3/	2,190	13,700	2,450	26,000	2,490	18,000
Gemstones	NA	448	NA	353	NA	W

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Texas--continued:						
Gypsum (crude)	1,870	10,100	1,880	16,200	1,870	16,600
Helium (crude) million cubic meters	7	7,050	5	4,730	W	W
Lime	1,210	76,200	1,370	85,800	1,410	88,100
Salt	8,760	76,500	9,110	85,000	8,970	76,100
Sand and gravel:						
Construction	56,700	242,000	61,100	271,000	72,000	342,000
Industrial	1,570	37,900	1,600	40,300	1,570	39,300
Stone:						
Crushed	76,100	300,000	81,100	310,000	86,000	335,000
Dimension metric tons	W	W	54,000	13,300	51,800	12,600
Talc and pyrophyllite do.	225,000	5,860	294,000	5,840	236,000	4,580
Combined value of clays [ball (1994), bentonite, fuller's earth, kaolin (1994)], helium [crude (1996), Grade-A], iron ore [usable (1994)], magnesium compounds, magnesium metal, sodium sulfate (natural), stone [dimension granite and limestone (1994)], sulfur (Frasch), and values indicated by symbol W						
	XX	295,000	XX	301,000	XX	314,000
Total	XX	1,540,000	XX	1,680,000	XX	1,780,000
Utah:						
Beryllium concentrates metric tons	4,330	5	5,040	6	5,430	6
Clays	243 3/	3,410 3/	424	4,280 3/	477	4,440 3/
Gemstones	NA	620	NA	939	NA	W
Iron ore (usable)	W	W	144	1,700	W	W
Salt	1,680	56,700	2,160	54,800	2,030	30,100
Sand and gravel (construction)	21,100	69,600	23,800	80,200	27,000	97,200
Stone (crushed)	4,540	19,800	4,140	14,800	3,800	13,900
Combined value of cement, clays (bentonite), copper, gold, gypsum (crude), helium (Grade-A), lime, magnesium compounds, magnesium metal, mercury, molybdenum, phosphate rock, potash, silver, stone [dimension (1995), dimension quartzite and sandstone (1994, 1996)], and values indicated by symbol W						
	XX	1,370,000	XX	1,700,000	XX	1,410,000
Total	XX	1,520,000	XX	1,850,000	XX	1,560,000
Vermont:						
Asbestos metric tons	1,130	920	--	--	--	--
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction)	3,890	14,500	3,220	11,000	4,200	15,800
Stone:						
Crushed	4,170	23,700	4,420	20,700	4,200	20,000
Dimension metric tons	78,900	23,200	100,000	28,700	107,000	31,000
Total 8/	XX	62,300	XX	60,400	XX	66,800
Virginia:						
Cement (portland)	930	54,700	W	W	W	W
Clays	870 3/	3,250 3/	891	3,200 3/	912	2,890 3/
Gemstones	NA	W	NA	W	NA	11
Lime	742	40,200	731	41,900	748	42,800
Sand and gravel (construction)	8,060	33,400	9,710	42,300	10,100	44,900
Stone:						
Crushed	56,700	327,000	55,400	326,000	57,000	339,000
Dimension metric tons	108 6/	13 6/	W	W	W	W

See footnotes at end of table.

TABLE 5--CONTINUED
NONFUEL RAW MINERAL PRODUCTION 1/ IN THE UNITED STATES, BY STATE 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Undistributed:						
Alaska (1995-96), Delaware, Hawaii, Maryland (1995-96), New Hampshire, New Jersey (1995-96), Pennsylvania (1995-96), Rhode Island, Vermont, and Undistributed (1996).	XX	14,700	XX	121,000	XX	145,000

p/ Preliminary. r/ Revised. NA Not available. W Withheld to avoid disclosing company proprietary data, value included with "Combined value." XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Excludes certain clays; kind and value included with "Combined value."

4/ Recoverable content of ores, etc.

5/ Data collected by state.

6/ Excludes certain stones; kind and value included with "Combined value."

7/ Value excluded to avoid disclosing company proprietary data.

8/ Partial total, excludes values which must be concealed to avoid disclosing company proprietary data. Withheld values included with "Undistributed."

9/ Grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.

10/ Data series changed to production beginning in 1995, prior years data may not be comparable.

11/ Excludes certain barites; kind and value included with "Combined value."

12/ Less than 1/2 unit.

13/ The mine on Nickel Mountain was on care and maintenance basis in 1996.

TABLE 6
NONFUEL RAW MINERAL PRODUCTION IN THE COMMONWEALTH OF PUERTO RICO
AND ISLANDS ADMINISTERED BY THE UNITED STATES 1/ 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1994		1995		1996 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Puerto Rico:						
Cement (portland)	W	W	1,410	W	1,520	W
Clays	119	338	W	W	W	W
Lime	23	2,970	23	2,970	16	2,090
Stone (crushed)	10,500	78,400	15,300	107,000	15,300	107,000
Total 3/	XX	81,700	XX	110,000	XX	109,000
Administered Islands:						
American Samoa: Stone (crushed)	84	W	W	W	W	W
Guam: Stone (crushed)	2,150	12,700	2,060	17,400	2,100	17,400
Total 3/	XX	12,700	XX	17,400	XX	17,400

p/ Preliminary. W Withheld to avoid disclosing company proprietary data; not included in "Total." XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Total does not include values of items withheld.